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A commutative ring with 1 is called a *eld* if  $1 \neq 0$  and for all 0

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$\neq x^2$  there exists an element  $x \in A$  such that  $xx^{-1} = x^{-1}x = 1$ . In other words, every non-zero element of  $A$  is a unit. Clearly, every local integral domain, but not conversely (e.g.  $\mathbb{Z}$ ). Note that if  $x$  is a unit, then  $(x) = A = (1)$ . Also note that if  $x$  is nilpotent, then  $1 - x$  is a unit.

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COMPUTATIONAL COMMUTATIVE ALGEBRA NOTES 3 these

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problems is provided by Gröbner bases, however you will have to wait until Section 8 to see how. Basic Definitions. Definition 3.1. A field is a set  $K$  endowed with two binary operations:  $+$  and  $\cdot$  on  $K$  such that  $(a+b)^2 = a^2 + 2ab + b^2$  and  $(a \cdot b)^2 = a^2 \cdot b^2$  called multiplication and addition respectively. The triple  $(K; +, \cdot)$  satisfies:

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Commutative Algebra is the study of commutative rings, and their modules and ideals. This theory has developed over the last 150 years

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not just as an area of algebra considered for its own sake, but as a tool in the study of two enormously important branches of mathematics: algebraic geometry and algebraic number theory.

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The map  $\text{Spec}(B) \rightarrow \text{Spec}(A)$  corresponds to the projection to the  $(x, y)$ -plane of the surface  $F: xz = y^2$  in the  $(x, y, z)$ -space. Note  $F$  contains the whole  $z$ -axis and hence does not look flat over the  $(x, y)$ -plane.

EXAMPLE 3. Let  $A = k[x, y]$  be as above and  $B = k[x, y, z]$  with  $z^2 = f(x, y) \in A$ .

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Commutative algebra is the branch of algebra that studies commutative rings, their ideals, and modules over such rings. Both algebraic geometry and algebraic number theory build on commutative algebra. Prominent examples of commutative rings include polynomial rings; rings of algebraic integers, including the ordinary integers  $\mathbb{Z}$ ; and  $p$ -adic integers. Commutative algebra is the main technical tool in the local study of schemes. The

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study of rings that are not necessar

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Definition 2.2. Suppose we have a commutative subring  $A \subseteq R$  (with identity). An element  $f \in R$  is called integral over  $A$  if  $f$  satisfies a monic polynomial equation  $f^n + a_{n-1}f^{n-1} + \dots + a_0 = 0$  with  $a_i \in A$ . Proposition 2.3 Given  $A \subseteq R$  a commutative subring, the set of integral elements is a subring. Lemma 2.4 Let  $A$  be a ring, and  $M$  a finitely-generated  $A$ -module. Let  $\phi : M \rightarrow M$  be an  $A$ -linear map.

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we require before any progress can be made the introductory book sha00 is formal in tone and covers the material in a clear fashion if

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Further, every ring is commutative (that is,  $xy = yx$  in it), with an occasional exception, which is always marked (normally, it 's a ring of matrices). As usual, the additive identity is denoted by 0. Note that, for any  $x$  in  $R$ ,  $x \cdot 0 = 0$ ; indeed,  $x \cdot 0 = x(0+0) = x \cdot 0 + x \cdot 0$ , and  $x \cdot 0$

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can be canceled by adding  $-(x \cdot 0)$ . We allow  $1 = 0$ .

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Contains contributions by over 25 leading international mathematicians in the areas of commutative algebra and algebraic geometry. The text presents developments and results based on, and inspired by, the work of Mario Fiorentini. It covers topics ranging from almost numerical invariants of algebraic curves to deformation of projective schemes.

Exploring ultraproducts of Noetherian local rings from an algebraic perspective, this volume illustrates the many ways they can be used in commutative algebra. The text includes an introduction to tight closure in characteristic zero, a survey of flatness criteria, and more.

The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra,

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especially in well-known theorems concerning projective modules over polynomial rings (mainly the Quillen-Suslin theorem) and syzygies of multivariate polynomials with coefficients in a valuation ring. Simple and constructive proofs of some results in the theory of projective modules over polynomial rings are also given, and light is cast upon recent progress on the Hermite ring and Gröbner ring conjectures. New conjectures on unimodular completion arising from our constructive approach to the unimodular completion problem are presented. Constructive algebra can be understood as a first preprocessing step for computer algebra that leads to the discovery of general algorithms, even if they are sometimes not efficient. From a logical point of view, the dynamical evaluation gives a constructive substitute for two highly nonconstructive tools of abstract algebra: the Law of Excluded Middle and Zorn's Lemma. For instance, these tools

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are required in order to construct the complete prime factorization of an ideal in a Dedekind ring, whereas the dynamical method reveals the computational content of this construction. These lecture notes follow this dynamical philosophy.

This book provides careful and detailed introductions to some of the latest advances in three significant areas of rapid development in commutative algebra and its applications. The book is based on courses at the Winter School on Commutative Algebra and Applications held in Barcelona: Tight closure and vector bundles, by H. Brenner; Combinatorics and commutative algebra, by J. Herzog; and Constructive desingularization, by O. Villamayor. The exposition is aimed at graduate students who have some experience with basic commutative algebra or algebraic geometry but may also serve as an



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introduction to these modern approaches for mathematicians already familiar with commutative algebra. This book is published in cooperation with Real Sociedad Matematica Espanola.

"Presents the proceedings of the recently held Third International Conference on Commutative Ring Theory in Fez, Morocco. Details the latest developments in commutative algebra and related areas- featuring 26 original research articles and six survey articles on fundamental topics of current interest. Examines wide-ranging developments in commutative algebra, together with connections to algebraic number theory and algebraic geometry."

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For any researcher working in representation theory, algebraic or arithmetic geometry.

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